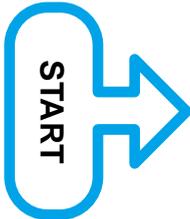# EPSON®

Home Theatre Projector

EMP-TW100

Setup Guide

1 **Before Using the Remote Control**

- **Inserting the Batteries**
- **Battery Replacement Period and Using the Remote Control**
- **Remote Control Operating Range**

2 **Setup**

- **Screen Size and Setting-up Distance**
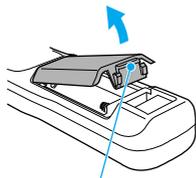- **Setting-up Methods**

3 **Connecting to a Video Source**
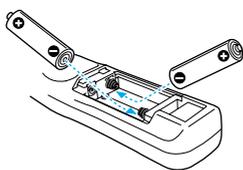
4 **Connecting to a Computer**

Inserting the Batteries

The batteries are not inserted into the remote control at the time of purchase, and so you need to insert them before the remote control can be used.
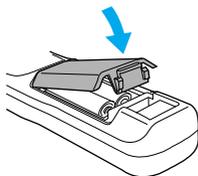
1

Remove the battery compartment cover.

While pressing the cover here, lift the cover up.

2

Insert the batteries.
Make sure the polarities of the batteries are correct.

3

Replace the battery compartment cover.
After inserting the tab of the battery cover, push the cover down until it clicks into place.

Battery Replacement Period and Using the Remote Control

Battery Replacement Period and Cautions

If the remote control becomes slow in responding or if it stops working, the batteries may be spent. If this happens, replace the batteries with fresh ones.
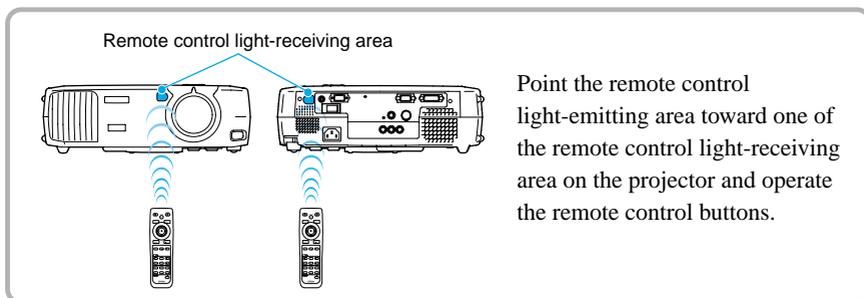
Guide for battery replacement: Approximately 3 months if used for 30 minutes per day

* The replacement period given above may vary depending on the amount of usage and the ambient conditions.

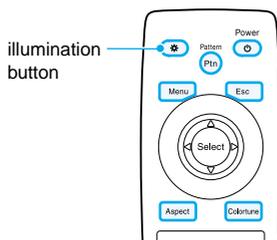Use the following type of batteries as replacements.

Alkaline dry cell LR6 (AA) x 2

Using the Remote Control

Remote control light-receiving area

Point the remote control light-emitting area toward one of the remote control light-receiving area on the projector and operate the remote control buttons.

Do not allow sunlight or light from fluorescent lamps to shine directly onto the projector's remote control light-receiving area, otherwise it may interfere with the reception of signals from the remote control.

☼ (illumination) button

illumination button

Power
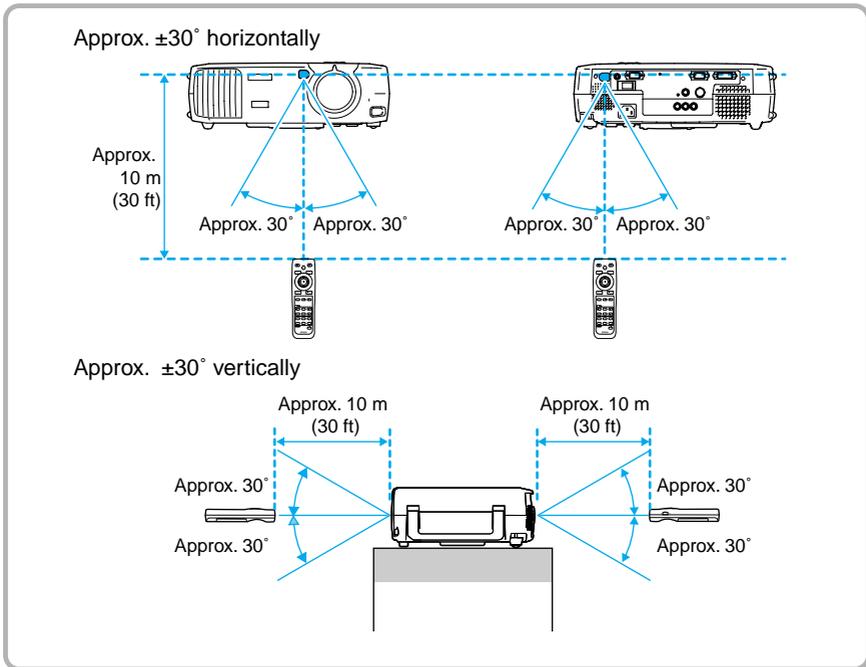Pattern
Ptn
Menu
Esc
Select
Aspect
Colortune

When the ☼ button is pressed, the buttons shown in colour in the illustration at left are illuminated for 10 seconds. If you press the ☼ button again during this 10-second period, the illumination continues for another 10 seconds.

Remote Control Operating Range

Use the remote control within the ranges indicated below. If the distance or angle between the remote control and the remote control light-receiving area is outside the normal operating range, the remote control may not work.

Operating distance	Operating angle
Approx. 10 m (30 ft)	Approx. 30˚ vertically and horizontally

Approx. ±30˚ horizontally

Approx. 10 m (30 ft)

Approx. 30˚   Approx. 30˚   Approx. 30˚   Approx. 30˚

Approx. ±30˚ vertically

Approx. 10 m (30 ft)   Approx. 10 m (30 ft)

Approx. 30˚   Approx. 30˚

Approx. 30˚   Approx. 30˚
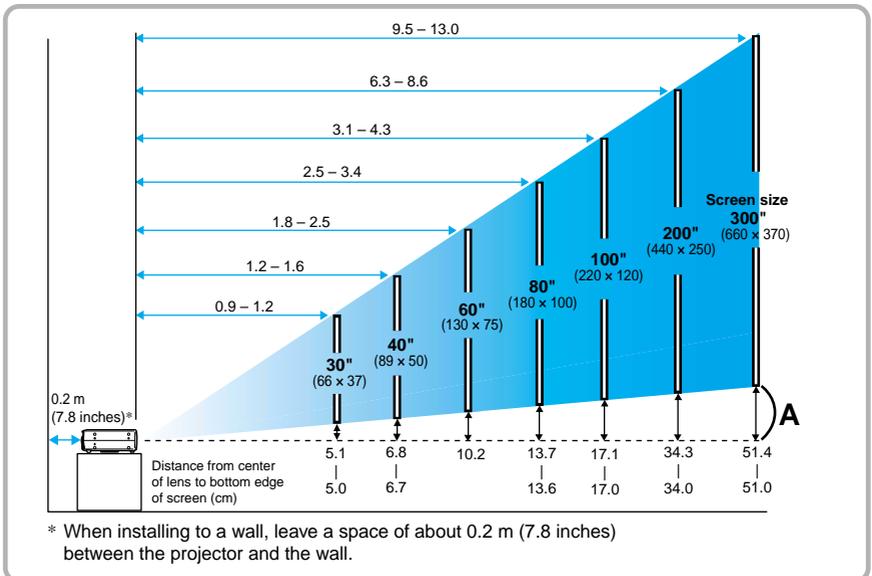
Screen Size and Setting-up Distance

The distance between the projector and the screen determines the actual image size.

Recommended distance : 0.9m - 13.0m (2.9 - 42.6 feet)

While referring to the table below, position the projector so that the image size is smaller than the screen size.

Screen size (cm (feet))	Approximate projection distance* (m (feet))	Distance in Fig. A below (cm (feet))
30" (66 × 37 (2.1 × 1.2))	0.9 – 1.2 (2.9 – 3.9)	5.0 – 5.1 (0.16 – 0.17)
40" (89 × 50 (2.8 × 1.6))	1.2 – 1.6 (3.9 – 5.2)	6.7 – 6.8 (0.22 – 0.22)
60" (130 × 75 (4.2 × 2.4))	1.8 – 2.5 (5.9 – 8.2)	10.2 (0.33)
80" (180 × 100 (5.7 × 3.2))	2.5 – 3.4 (8.2 – 11.1)	13.6 – 13.7 (0.45 – 0.45)
100" (220 × 120 (7.2 × 4.1))	3.1 – 4.3 (10.1 – 14.1)	17.0 – 17.1 (0.56 – 0.56)
200" (440 × 250 (14.4 × 8.2))	6.3 – 8.6 (20.6 – 28.2)	34.0 – 34.3 (1.12 – 1.13)
300" (660 × 370 (21.6 × 12.1))	9.5 – 13.0 (31.1 – 42.6)	51.0 – 51.4 (1.67 – 1.69)

* Distance and dimensions should be used as a guide for installation. The actual distance will vary depending on projection conditions.

9.5 – 13.0
6.3 – 8.6
3.1 – 4.3
2.5 – 3.4
1.8 – 2.5
1.2 – 1.6
0.9 – 1.2

Screen size
300" (660 × 370)
200" (440 × 250)
100" (220 × 120)
80" (180 × 100)
60" (130 × 75)
40" (89 × 50)
30" (66 × 37)

A

0.2 m (7.8 inches)*

Distance from center of lens to bottom edge of screen (cm)

5.1 / 5.0   6.8 / 6.7   10.2   13.7 / 13.6   17.1 / 17.0   34.3 / 34.0   51.4 / 51.0

* When installing to a wall, leave a space of about 0.2 m (7.8 inches) between the projector and the wall.

- The projector's lens allows a zoom ratio of up to about 1.35. The image size at the maximum zoom setting is about 1.35 times bigger than the image size at the minimum zoom setting.
- The image size will be reduced when keystone correction is carried out.
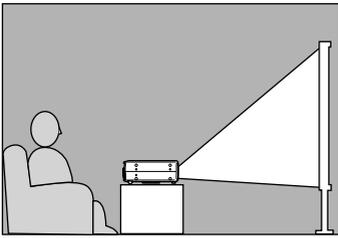
Setting-up Methods

The projector supports the following five projection methods, allowing you to choose the best method for displaying your images.

After setting up the projector, refer to the *User's Guide* for details on turning on the power and adjusting settings such as the screen size. ("Basic Operations" in *User's Guide*)
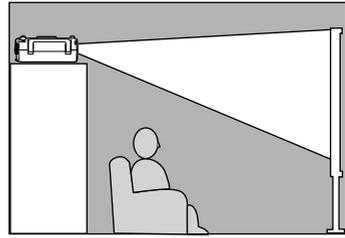
> **(!)** When setting up the projector, be sure to first read the *Safety Instructions/World-Wide Warranty Terms* for information on the safety precautions that must be observed at this time.
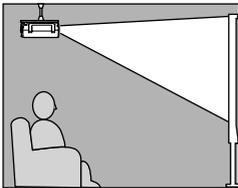
Front projection

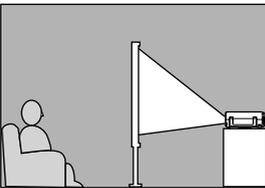Projecting from locations such as the top of a cabinet
When installing the projector upside down, set the Screen Mode command in the Settings environment setting menu to "Front/Ceiling". ("Settings" menu in *User's Guide*)
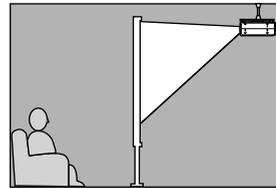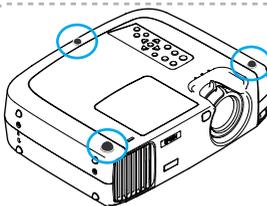
Front/ceiling projection

Rear projection using a translucent screen

Rear projection onto a translucent screen with the projector installed to the ceiling

* A special method of installation is required in order to suspend the projector from the ceiling. Please contact the place of purchase if you would like to use this installation method.

* When installing to the ceiling or projecting from behind the screen, set the Screen Mode command in the Settings environment setting menu to match the method of projection being used. ("Settings" menu in *User's Guide*)

Rubber stands (Attach in 3 places)

When turning the projector upside down, attach the rubber stands that are included.
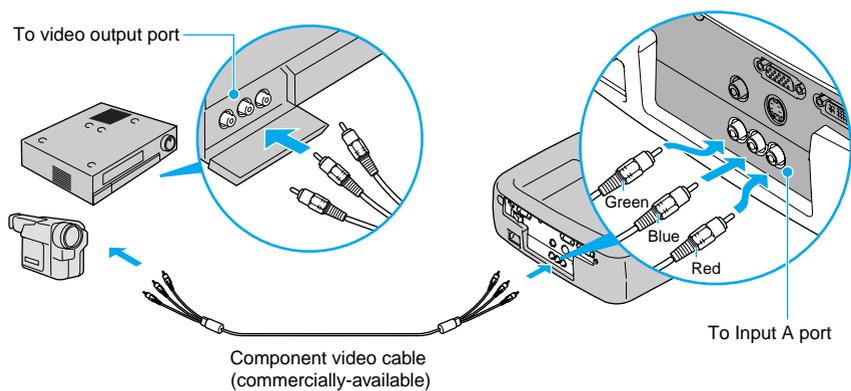**This can prevent the control panel from directly touching the installation surface.**

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⚠ ● Turn off the power for both the projector and the video source before connecting them. If the power for either device is on at the time of connection, damage may result.
● Check the shapes of the cable connectors and the device ports before making the connections. If you try to force a connector to fit a device port with a different shape or number of terminals, a malfunction or damage to the connector or port may result.
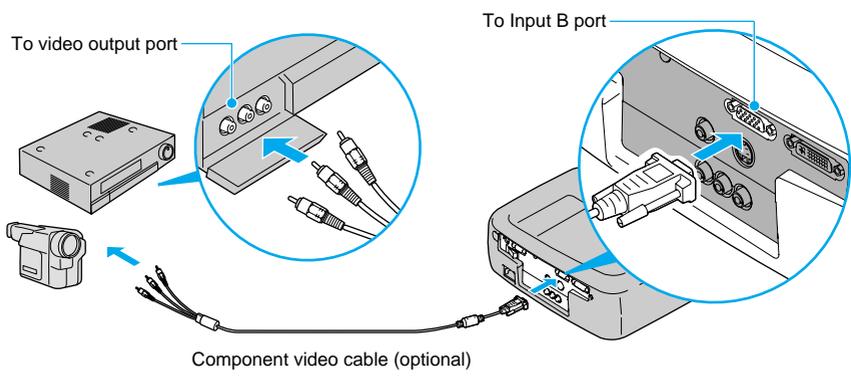
Refer to the Optional Accessories appendix in the separate *User's Guide* for details of the optional cables.

Projecting Component Video Images

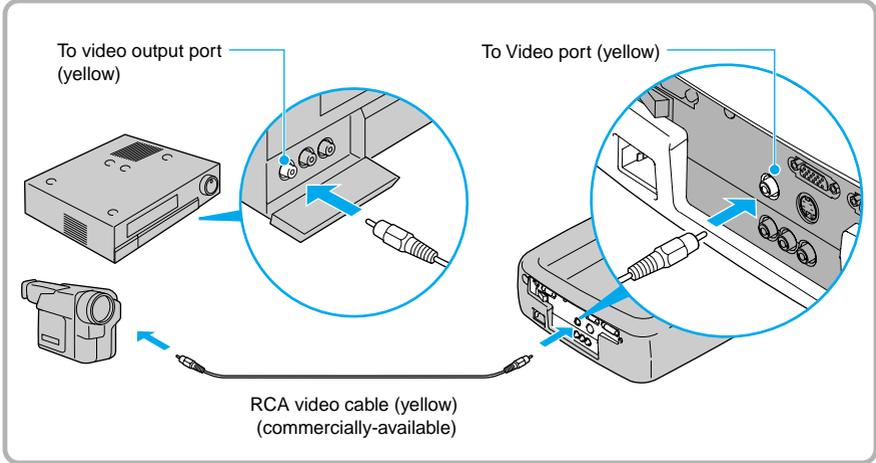### If connecting using a component video cable (commercially-available)

To video output port

Green
Blue
Red

To Input A port

Component video cable (commercially-available)

If connecting using a component video cable (optional)

To Input B port

To video output port

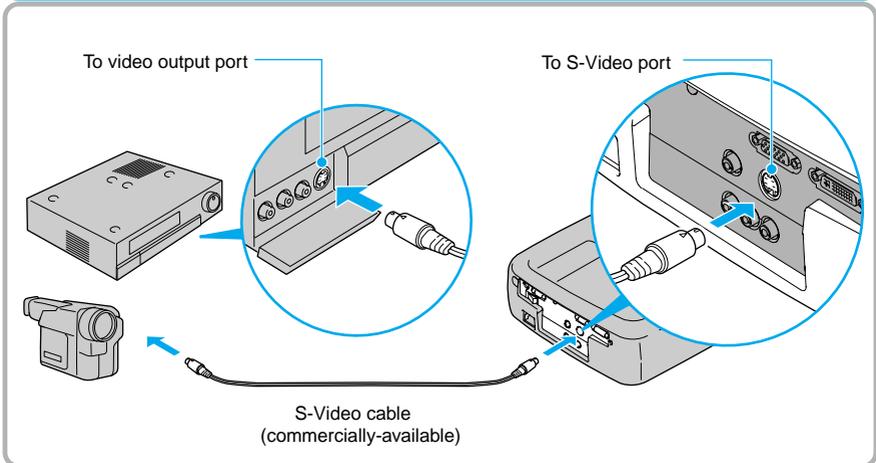Component video cable (optional)

💡 If more than one peripheral device is being connected to the projector, make the connections and then change the Input A and Input B commands in the Advanced environment setting menu to "YCbCr" or "YPbPr" to match the signals from these devices. ("Advanced" menu in *User's Guide*)
For HDTV (750p or 1125i), "YPbPr" will be selected regardless of the above setting.
For SDTV(525i,625i), "YCbCr" will be selected regardless of the above setting.

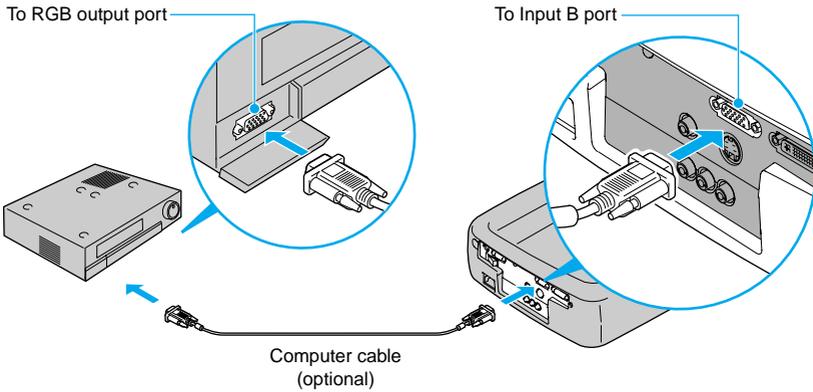## Projecting Composite Video Images

To video output port (yellow)
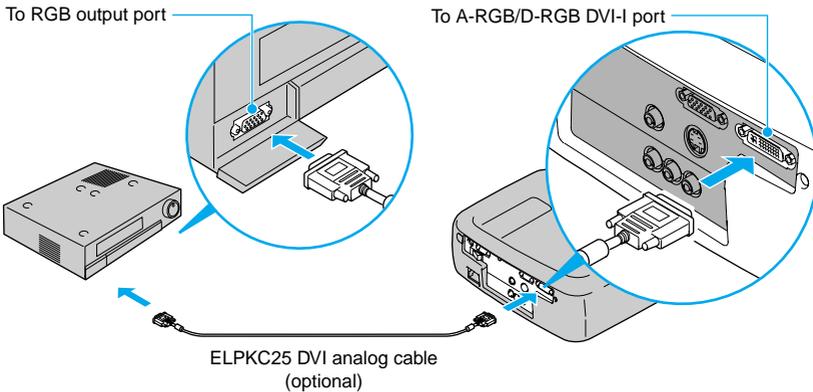
To Video port (yellow)

RCA video cable (yellow)
(commercially-available)

Projecting S-Video Images

To video output port

To S-Video port

S-Video cable
(commercially-available)

Projecting RGB Video Images

If connecting using a computer cable (optional)

To RGB output port

To Input B port

Computer cable
(optional)

After connecting, use the environment setting menus to change the "Input B" setting in the "Advanced" menu to "RGB".
("Advanced" menu in *User's Guide*)

If connecting using a DVI analog cable (optional)

To RGB output port

To A-RGB/D-RGB DVI-I port

ELPKC25 DVI analog cable
(optional)

● Turn off the power for both the projector and the computer before connecting them. If the power for either device is on at the time of connection, damage may result.
● Check the shapes of the cable connectors and the device ports before making the connections. If you try to force a connector to fit a device port with a different shape or number of terminals, damage to the connector or port may result.

The projector cannot be connected to some types of computer, or projection of images may not be possible even if actual connection is possible. Make sure that the computer you intend to use satisfies the conditions given below.

Condition 1: The computer must have a image signal output port.
Check that the computer has a port such as an RGB port, monitor port or video port which can output image signals. If the computer has a built-in monitor, or if using a laptop computer, it may not be possible to connect the computer to the projector, or alternatively you may need to purchase a separate external output port. Refer to the *User's Guide* for your computer under a heading such as "Connecting an external monitor" or similar for further details.
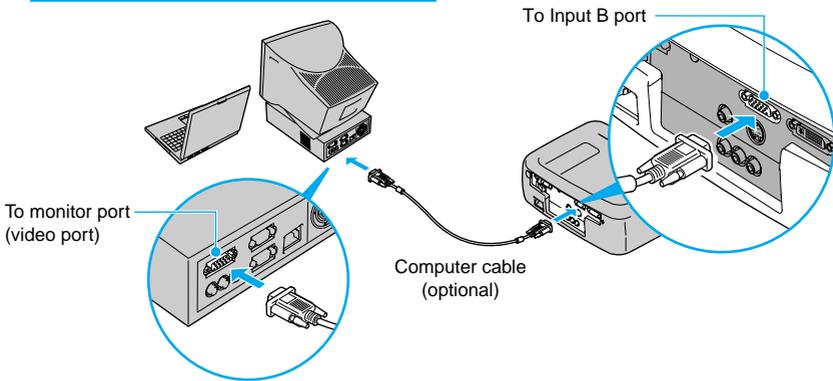
Condition 2: The display resolution and frequency of the computer must be listed in the "List of Supported Signal Resolutions".
Some computers may have functions for changing the output resolution. Refer to the User's Guide for the computer and change the setting to within a range given in the list of supported resolutions.
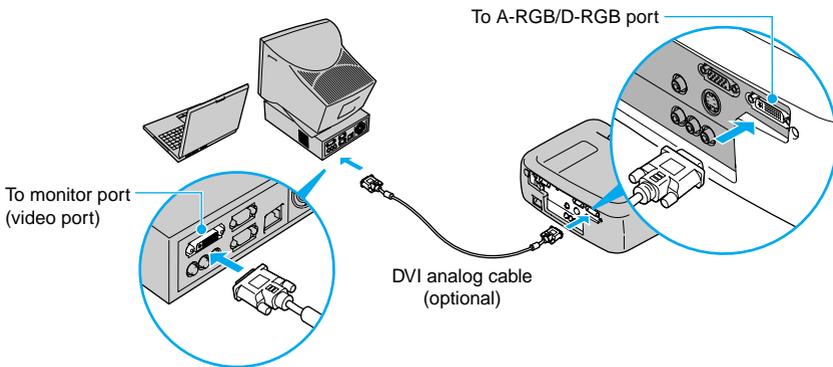
● You may need to purchase a separate adapter to connect the computer to the projector, depending on the shape of the computer's monitor port. Refer to the *User's Guide* for the computer for details.
● The optional Mac Adapter Set is required in order to connect the projector to a Macintosh computer.

If connecting using a computer cable

To Input B port

To monitor port
(video port)

Computer cable
(optional)

If connecting more than one projector together, make the connection
and then use the environment setting menus to change the "Input B"
setting in the "Advanced" menu to "RGB".
("Advanced" menu in *User's Guide*)

If the computer is equipped with a DVI or
DFP-compliant digital video card or video output port

To A-RGB/D-RGB port

To monitor port
(video port)

DVI analog cable
(optional)

Do not bind the power cord together with the computer cable or DVI analog
cable, otherwise it may cause interference in the projected images or
operating errors.

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